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Datasheet for ABIN6260430 anti-CAMK2D antibody (C-Term)

Image



Overview

Quantity:	100 µL
Target:	CAMK2D
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CAMK2D antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human CAMK2D, corresponding to a region within C-terminal amino acids.
lsotype:	lgG
Specificity:	CAMK2D Antibody detects endogenous levels of total CAMK2D.
Predicted Reactivity:	Pig,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

CAMK2D

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Target Details	
Alternative Name:	CAMK2D (CAMK2D Products)
Background:	Description: Calcium/calmodulin-dependent protein kinase involved in the regulation of Ca2+
	homeostatis and excitation-contraction coupling (ECC) in heart by targeting ion channels,
	transporters and accessory proteins involved in Ca2+ influx into the myocyte, Ca2+ release
	from the sarcoplasmic reticulum (SR), SR Ca2+ uptake and Na+ and K+ channel transport.
	Targets also transcription factors and signaling molecules to regulate heart function. In its
	activated form, is involved in the pathogenesis of dilated cardiomyopathy and heart failure.
	Contributes to cardiac decompensation and heart failure by regulating SR Ca2+ release via
	direct phosphorylation of RYR2 Ca2+ channel on 'Ser-2808'. In the nucleus, phosphorylates the
	MEF2 repressor HDAC4, promoting its nuclear export and binding to 14-3-3 protein, and
	expression of MEF2 and genes involved in the hypertrophic program. Is essential for left
	ventricular remodeling responses to myocardial infarction. In pathological myocardial
	remodeling acts downstream of the beta adrenergic receptor signaling cascade to regulate key
	proteins involved in ECC. Regulates Ca2+ influx to myocytes by binding and phosphorylating
	the L-type Ca2+ channel subunit beta-2 CACNB2. In addition to Ca2+ channels, can target and
	regulate the cardiac sarcolemmal Na+ channel Nav1.5/SCN5A and the K+ channel
	Kv4.3/KCND3, which contribute to arrhythmogenesis in heart failure. Phosphorylates
	phospholamban (PLN/PLB), an endogenous inhibitor of SERCA2A/ATP2A2, contributing to the
	enhancement of SR Ca2+ uptake that may be important in frequency-dependent acceleration of
	relaxation (FDAR) and maintenance of contractile function during acidosis. May participate in
	the modulation of skeletal muscle function in response to exercise, by regulating SR Ca2+
	transport through phosphorylation of PLN/PLB and triadin, a ryanodine receptor-coupling
	factor.
	Gene: CAMK2D
Molecular Weight:	56 kDa
Gene ID:	817
UniProt:	Q13557
Pathways:	WNT Signaling, Interferon-gamma Pathway, Myometrial Relaxation and Contraction, Smooth
	Muscle Cell Migration
Application Dataila	
Application Details	

Application Notes:	WB 1:1000-3000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

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Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot analysis of CAMK2D using HepG2 whole cell lysates

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